

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference NIS-1029-PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/JP2004/000779	International filing date (day/month/year) 28/01/2004	(Earliest) Priority Date (day/month/year) 31/01/2003
Applicant NISSAN MOTOR CO., LTD.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

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International Application No

PCT/JP2004/000779

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H01M8/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 08 096820 A (TOYOTA MOTOR CORP) 12 April 1996 (1996-04-12) paragraphs '0000! - '0005!, '0007!, '0012!, '0032!, '0039!, '0041! figures 7-9 claims 1,4 -& PATENT ABSTRACTS OF JAPAN vol. 1996, no. 08, 30 August 1996 (1996-08-30) -& JP 8 096820 A (TOYOTA MOTOR CORP), 12 April 1996 (1996-04-12) abstract	1-20
X	----- EP 1 265 303 A (MATSUSHITA ELECTRIC IND CO LTD) 11 December 2002 (2002-12-11) examples 6,7 figures 6,7 ----- -/--	1,2,4, 10,11,20

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

3 December 2004

Date of mailing of the international search report

13/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Gosselin, D

INTERNATIONAL SEARCH REPORT

International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/012827 A1 (MIZUNO SEIJI ET AL) 31 January 2002 (2002-01-31) paragraph '0055! figures 1,4	1-20
P,A	----- PATENT ABSTRACTS OF JAPAN vol. 2003, no. 07, 3 July 2003 (2003-07-03) & JP 2003 086197 A (TOYOTA MOTOR CORP), 20 March 2003 (2003-03-20) abstract -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/000779

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 8096820	A	12-04-1996	NONE	
EP 1265303	A	11-12-2002	JP 3580218 B2	20-10-2004
			JP 2001283873 A	12-10-2001
			JP 2001325971 A	22-11-2001
			JP 3494137 B2	03-02-2004
			JP 2002075402 A	15-03-2002
			EP 1265303 A1	11-12-2002
			US 2004197633 A1	07-10-2004
			CN 1416604 T	07-05-2003
			WO 0167532 A1	13-09-2001
US 2002012827	A1	31-01-2002	JP 3551810 B2	11-08-2004
			JP 2000082482 A	21-03-2000
			US 6387558 B1	14-05-2002
JP 2003086197	A	20-03-2003	NONE	